

# PARA PULSER

*TAKE BACK YOUR POWER*



## Magnetic Pulser

(Based on the researches of Dr. R. C. Beck)

## Programming

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## A) Programming overview

Chapter	Programming	Number input / output									
1.0	Program pulse frequency into free memory location (1 - 12)	Z <sub>1</sub>	Z <sub>2</sub>	Z <sub>3</sub>	Z <sub>4</sub>	Z <sub>5</sub>					
1.0a	Read pulse frequency from free memory location (1 - 12)	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	A <sub>4</sub>	A <sub>5</sub>					
1.1	Program acoustic pulse counter (10 - 9999 pulses)	1	1	Z <sub>1</sub>	Z <sub>2</sub>	Z <sub>3</sub>	Z <sub>4</sub>				
1.2	Read out acoustic pulse counter	1	2	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	A <sub>4</sub>				
1.3	Adjust the volume of the operating signals (level 1 - 5).	1	3								
1.4	Set the volume of the acoustic pulse counter (level 1 - 5).	1	4								
1.5	Yellow LED "ON" when consuming pulses from the pulse reservoir	1	5								
1.6	Read out standard frequency range	1	6	A <sub>1</sub>	A <sub>2</sub>						
1.7	Read out software version	1	7	A <sub>1</sub>	A <sub>2</sub>						
1.8	Read out serial number	1	8	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	A <sub>4</sub>	A <sub>5</sub>	A <sub>6</sub>		
—	Read out verification code (*)	1	9	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	A <sub>4</sub>	A <sub>5</sub>	A <sub>6</sub>	A <sub>7</sub>	A <sub>8</sub>
1.9	Practise CODE input with test CODE	6	2	7	0	9	3				
2.0	Read out remaining number of pulses in the pulse reservoir	A <sub>1</sub>	A <sub>2</sub>	A <sub>3</sub>	A <sub>4</sub>	A <sub>5</sub>	A <sub>6</sub>	A <sub>7</sub>	A <sub>8</sub>		
2.1	Refill pulse reservoir with pulses	C <sub>1</sub>	C <sub>2</sub>	C <sub>3</sub>	C <sub>4</sub>	C <sub>5</sub>	C <sub>6</sub>				
2.2	Enter code number	C <sub>1</sub>	C <sub>2</sub>	C <sub>3</sub>	C <sub>4</sub>	C <sub>5</sub>	C <sub>6</sub>				
2.3	Enter Unlock CODE	C <sub>1</sub>	C <sub>2</sub>	C <sub>3</sub>	C <sub>4</sub>	C <sub>5</sub>	C <sub>6</sub>				

Z<sub>1</sub> ... Z<sub>5</sub> : This number (0 – 9) must be selected and entered by the user.

A<sub>1</sub> ... A<sub>8</sub> : This number (0 – 9) is output by the **Parapulser**.

0 ... 9 : This number is fixed and must be entered by the user.

C<sub>1</sub> ... C<sub>6</sub> : The 6-digit CODE number must be entered by the user.

(\*) This function only has a meaning for the manufacturer.

## B) Basics for carrying out a programming

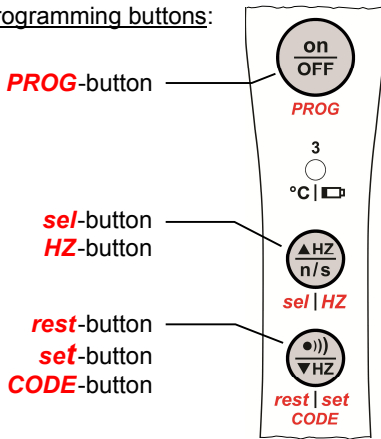
### B1 Button functions in programming mode and in normal mode

In *Programming-mode*, only the **red** button functions are active.

In *normal mode*, only the **black** button functions are active.

Key functions in **lower case** letters are activated with a **short** press, key functions in **UPPER CASE** letters are activated with a **long** press (2 or 3 sec.) unless otherwise specified.

Programming buttons:



Brief description of the button functions:

**PROG** à activate / exit *Programming-mode*  
 à Cancel input mode  
 à One input position back  
 à switch off **Parapulser**

**sel** à Select no. (0-9) or memory location (1-12)  
**HZ** à Activate / complete frequency input

**rest** à Output pulse reserve / frequency value  
**set** à Confirm selected number (0-9)  
**CODE** à Activate input-mode

### B2 Activate / exit Programming-mode

To carry out a programming, setting or data output on the **Parapulser**, the *Programming-mode* must first be activated:

*Programming-mode* activate    è Press the **PROG**-button for **3** seconds when switching on the **Parapulser**, until **3** beeps sound and all **3** LEDs (= = =) light up continuously.

*Programmier-mode* exit        è Switch off Parapulser:  
 push **PROG**-button for **3** sec.,

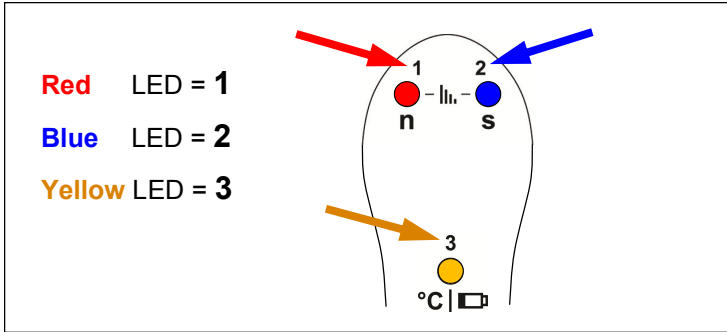
or...

è Switch the **Parapulser** to normal mode:  
 Push the **PROG**-button **3x** quickly. This works only, if all **3** LED are light up. So if needed, push the **PROG**-button shortly, until all **3** LEDs (= = =) are light up constantly.

### B3 Display of numbers through LEDs

The numbers 0 – 12 are displayed with the help of the 3 LEDs (= = = ).

- Each LED is assigned a number (1, 2, 3). This number is printed on the button foil of the **Parapulser** above the respective LED:



- The number displayed (0 – 12) is the **sum** of all numbers (1, 2, 3) whose LED lights up. If an LED flashes twice in succession, the assigned number is counted **twice**.
- At the number "0", all 3 LEDs light up dimly.

**Example:** If the number "7" is displayed, the red LED lights up and the yellow one flashes 2 times per second. The sum of 1 + 3 + 3 is 7.

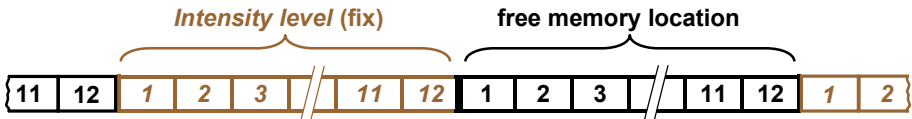
The following table shows how the numbers 0 – 12 are formed by adding the numbers 1, 2, 3 when the respective LEDs are lit or flashing 2 times:

Displayed number	0	1	2	3	4	5	6
LED is ● = dimmed ○ = off ⊙ = flash 2x	1 2 ● ● 3 ●	1 2 ● ○ 3 ○	1 2 ○ ● 3 ○	1 2 ○ ○ 3 ●	1 2 ● ○ 3 ●	1 2 ○ ● 3 ●	1 2 ○ ○ 3 ⊙
<b>Sum</b>	0	1	2	3	1 + 3 = 4	2 + 3 = 5	3 + 3 = 6

Displayed number	7	8	9	10	11	12
LED is ○ = off ⊙ = flash 2x	1 2 ● ○ 3 ⊙	1 2 ○ ● 3 ⊙	1 2 ● ● 3 ⊙	1 2 ○ ⊙ 3 ⊙	1 2 ● ● 3 ⊙	1 2 ● ● 3 ⊙
<b>Sum</b>	1+3+3 = 7	2+3+3 = 8	1+2+3+3 = 9	2+2+3+3 = 10	1+2+2+3+3 = 11	1+1+2+2+3+3 = 12

### B4 Free memory locations (1 – 12) for individual pulse frequencies

In addition to the **12 intensity levels** with a fixed pulse frequency (see user manual on page 5), **12 free memory locations** are available for programming individual pulse frequencies in the range **1.000 – 20.000 Hz** (one to twenty):



Switching between **Intensity level** and **free memory location**:

**Programming-mode** : You can only switch between **free memory locations** by **shortly** pressing the **sel**-button. A short beep sounds.

**Normal mode** : To switch between **Intensity levels / free memory location**, press the **▲HZ/ ▼HZ**-button for **2 sec.** until the **"dulip"** signal sounds.



- A **free memory location** can only be selected in **normal operation** if it was previously programmed with a pulse frequency in **Programming-mode**. Empty or unprogrammed free memory locations are skipped.
- When the **Parapulser** is delivered, all **12 free memory locations** are empty or unprogrammed and therefore cannot be selected in **normal operation**.

### B5 Differentiation between **intensity level** and **free memory location**

Since the **intensity levels (1 – 12)** and the free memory locations (**1 – 12**) are numbered with the same numbers, which are indicated by means of LEDs (= = =), there is a **visual** and an **acoustic** distinction when switching to an intensity level or to a **free memory location** during **normal operation**:

- When switching to an **intensity level**, the brightness of the LEDs is slowly dimmed up and the switching signal sounds like a **"dulip"**.
- When switching to a **free memory location**, the LEDs are immediately switched on with maximum brightness, and the switching signal also sounds like a **"dulip"**, but **one octave lower**.

The following table describes this distinction additionally:

	<b>Intensity level</b>	<b>free memory location</b>
<b>Brightness of the LEDs:</b>	 is dimmed up	 immediately maximum brightness
<b>Switchover signal:</b>	<b>„dulip“</b>	<b>„Dulip“</b> is one octave lower

## B6 Input facilitation

### a) Auto-complete a frequency or pulse count value:

By exiting the input mode prematurely (see **d** ), all remaining zero digits of a frequency or pulse count value can be added automatically. This can greatly reduce the input time.

#### Example with frequency value:

To enter **10.000** Hz (ten dot zero zero zero) it is sufficient to enter the number "1" and then exit the input mode – see **d**).

#### Example with pulse count value for acoustic pulse counter:

To enter **2000** pulses it is sufficient to enter the number "2" and then exit the input mode – see **d**).

### b) Quick deletion of a free memory location:

Select the **free memory location** using the **sel**-button, activate the input mode (see **c** ), and then exit it again immediately (see **d** ). A deleted **free memory location** can no longer be selected in normal operation, or is skipped respectively.

### c) Activate input mode:

Press the **HZ**-button (2 sec.) until **3** beeps sound. The input mode is now activated: the **red** LED flashes once per second and a beep sounds.

### d) Exit input mode:

Press the **HZ**-button (2 sec.) until the "**dulip**" signal is heard. All remaining zeros are added automatically. The current frequency or pulse count programming is successfully completed.

The number (**1 – 12**) of the free memory location just programmed, is displayed again by means of LEDs. If a pulse count value has been programmed, all **3** LEDs (= = = ) light up again.

### e) Correct the last digit entered:

Press the **PROG**-button **once shortly**: the previously incorrectly entered digit can be entered again.

### f) Cancel frequency, pulse count value or CODE input:

Press the **PROG**-button **two times shortly**. All previous entries are discarded. All **3** LEDs (= = = ) light up again.

### g) Auto cancel countdown (6 min.):

A frequency, pulse count or CODE entry is automatically terminated if no key is pressed for **6** minutes: all previous entries are discarded. All **3** LEDs (= = = ) light up again.

**B7 Enter a 2- to 6-digit code number**

After activating the input mode, the **red** LED flashes **once per second** and a beep sounds. The number of **red** and **blue** LED flashes / beeps per second, indicate which **digit** of the **2- to 6-digit** number sequence should be entered next, see table below:

Number of LED flashers / beeps per sec.	Digit to be entered
1 =	Æ Enter 1st digit
2 ==	Æ Enter 2nd digit
3 ===	Æ Enter 3rd digit
4 ==== =	Æ Enter 4th digit
5 =====	Æ Enter 5th digit
6 ===== =	Æ Enter 6th digit

Enter displayed digit by following **(A)** and **(B)**:

- (A) è **sel**-button press so often **shortly**, until the desired number (**0 – 9**) is displayed by means of the LEDs (= = = ).
- (B) è **set**-button press **shortly**, to confirm the displayed number (\*). A "dulip"-signal sounds.

Enter remaining digits:

As long as the **red** and **blue** LEDs are flashing / beeps are sounding, continue entering digits with **(A)** and **(B)**.

Then go back to the chapter from which you jumped here.

Cancel number input:

To completely cancel a digit or CODE entry, press the **PROG**-button **shortly**, until all three LEDs (= = = ) light up again. All entries are discarded.

(\*) Correct incorrect number entry:

If an incorrect number was confirmed, press the **PROG**-button **once shortly**. The corresponding digit can then be entered again.

## C) Programming instructions

### 1.0 Program pulse frequency into free memory location (1 – 12)

The following rules apply when programming a pulse frequency:

- Only frequency values between **1.000** and **20.000** Hz (ten - twenty) can be entered.
  - A frequency value is to be entered as a **5-digit** numerical sequence without dot.  
**Examples:** **7.830** Hz becomes the sequence **07830**, **12.667** Hz becomes **12667**.
  - Depending on the **Parapulser** version: **BASIS (2 Hz)**, **SEMIRPRO (10 Hz)** and **PRO (20 Hz)**, only programmed pulse frequencies that are less than/equal to the respective (**Hz**) value can be set in normal operation. However, as long as there are magnetic pulses in the pulse reservoir, all frequencies can be selected.
  - Note the input facilitations under point "**B6**" on page **6**.
- 1.) Write down the desired frequency value as a **5-digit** number sequence (e.g. **07830**).
  - 2.) Activate *Programming-mode*, see "**B2**" on page **3**.
  - 3.) Select free memory location:  
 Press the **sel**-button **shortly**, until the number (**1 – 12**) of the **free memory location** in which the frequency value is to be programmed, is displayed by LEDs.
  - 4.) Activate input mode:  
 Press the **HZ**-button (**2 sec.**) until **3** beeps sound. The input mode is now activated: the **red** LED flashes once per second and a beep sounds.
  - 5.) Enter 5-digit frequency sequence:  
 Jump to chapter "**B7**" on page **7** and follow the instructions for entering the digits. Then continue here with point **6.**)
  - 6.) The frequency value has been successfully programmed:  
 The input mode is automatically terminated. The LEDs again show the number (**1 – 12**) of the **free memory location** into which the frequency value has just been programmed.
  - 7.) – The frequency value just programmed can be read out for checking. To do this, continue with chapter "**1.0a**", subitem **3.**) on page **9**.
    - Further frequencies can be programmed in. Continue with point **3.**)
    - Carry out other programming: Press the **PROG**-button **once shortly**. All **3** LEDs (= = = ) light up again.
    - Switch off the **Parapulser**: Press the **PROG**-button for **3** seconds.
  - 8.) Set the **Parapulser** to the programmed frequency value:
    - 8.1) Exit *Programming-mode*, see "**B2**" on page **3**.
    - 8.2) Use the **▲HZ/ ▼HZ** button to switch to the corresponding **free memory location**, see note on **normal operation** in the box under point "**B4**" on page **5**. Or see in the manual chapter "**7.3**" Changing the pulse frequency, on page **12**.

### 1.0a Read pulse frequency from free memory location

- 1.) Activate *Programming-mode*, see "B2" on page 3.
- 2.) Select free memory location to be read out.:  
Press the *sel*-button **shortly** until the number (1 – 12) of the **free memory location** to be read out, is displayed by means of LEDs.
- 3.) Read out all 5 digits of the frequency value:  
Press the *rest*-button repeatedly **short** and write down the number indicated by the LEDs to the right of the last number noted. A long "**beep**" sound signals, that all digits have been read. The input mode is ended automatically. The number (1–12) of the **free memory location** just read, is displayed again by means of LEDs.
- 4.) Set dot:  
With the number sequence noted, place a dot after the second digit from the left. The sequence of numbers now corresponds to the pulse frequency in this **free memory location**.  
Example: the read-out number sequence "07830" becomes "07.830".
- 5.) You may now exit the *Programming-mode*, see "B2" on page 3.

### 1.1 Programming the acoustic pulse counter [11]

The following rules apply when programming the acoustic pulse counter:

- Only counter values between **10** and **9999** can be programmed.
  - A **4**-digit number sequence is to be formed from each counter value:  
**Examples:** "60" becomes the number sequence "0060", "840" becomes "0840".
  - The number "**11**" is to be added to the **4**-digit number sequence on the left:  
**Examples:** "0060" becomes "**110060**" and "0840" becomes "**110840**".
  - Note the input facilitations under point "**B6**" on page 6.  
Hint: If the pulse frequency is set above **10** Hz, the pulse counter should not be programmed above **6000** pulses, as the count will be prematurely interrupted if the **Parapulser** stops the pulse operation due to overheating of the magnetic coil.
- 1.) Write down a **6**-digit number sequence according to the above rules, e.g. "**110840**".
  - 2.) Activate *Programming-mode*, see "B2" on page 3.
  - 3.) Activate input mode:  
Press the *CODE*-button (2 sec.) until **3** beeps sound. The input mode is now activated: the **red** LED flashes once per second and a beep sounds.
  - 4.) Enter 6-digit number sequence:  
Jump to chapter "**B7**" on page **7** and follow the instructions for entering the position. Then continue here with point 5.)
  - 5.) The pulse counter has been successfully programmed and activated:  
The input mode is automatically terminated. All three LEDs (= = =) light up again. The next time the **Parapulser** is switched on, the acoustic pulse counter is activated: a beep sounds every so many pulses, and the pulse mode stops for **1** second. This

makes it easy to recognise when to move to the next body location in order to distribute the magnetic pulses evenly during a session.

### 1.2 Read out acoustic pulse counter [12]

- 1.) Activate *Programming-mode*, see "B2" on page 3.
- 2.) Activate input mode:  
Press the **CODE**-button (2 sec.) until 3 beeps sound. The input mode is now activated: the **red** LED flashes once per second and a beep sounds.
- 3.) Enter the 2-digit number sequence "12":  
Jump to chapter "B7" on page 7 and follow the instructions for entering the position. Then continue here with point 4.)
- 4.) Note the number issued:  
The **Parapulser** now shows the first digit of the counter value with the help of the LEDs. Note this number.
- 5.) Read out remaining digits:  
Press the **rest**-button repeatedly **short** and write down the number indicated by the LEDs to the right of the last number noted. A long "**beep**" sound signals that all digits have been read. The input mode is ended automatically. All three LEDs (= = =) light up again.
- 6.) The noted number sequence corresponds to the value of the pulse counter, e.g. **845**.

### 1.3 Set volume of operating signals [13]

The volume of the operating signals can be set in five levels (1 – 5).

Cancel volume setting: Press the **PROG**-button **shortly**; the previous volume level is retained. All three LEDs (= = =) light up again.

- 1.) Activate *Programming-mode*, see "B2" on page 3.
- 2.) Activate input mode:  
Press the **CODE**-button (2 sec.) until 3 beeps sound. The input mode is now activated: the **red** LED flashes once per second and a beep sounds.
- 3.) Enter the 2-digit number sequence "14":  
Jump to chapter "B7" on page 7 and follow the instructions for entering the position. Then continue here with point 4.)
- 4.) Set volume level:  
Press the **sel**-button shortly until the desired volume level (1 – 5) is indicated by LEDs.
- 5.) Confirm selected volume:  
Press the **sel**-key shortly to save the currently set volume. The input mode is automatically ended. All three LEDs (= = =) light up again.

## 1.4 Set volume of acoustic pulse counter [14]

The volume of the acoustic pulse counter can be set in five levels (1 – 5).

Cancel volume setting: Press the **PROG**-button **shortly**; the previous volume level is retained. All three LEDs (= = =) light up again.

- 1.) Activate **Programming-mode**, see "**B2**" on page 3.
- 2.) Activate input mode:  
Press the **CODE**-button (2 sec.) until 3 beeps sound. The input mode is now activated: the **red** LED flashes once per second and a beep sounds.
- 3.) Enter the 2-digit number sequence "14":  
Jump to chapter "**B7**" on page 7 and follow the instructions for entering the position. Then continue here with point 4.)
- 4.) Set volume level:  
Press the **sel**-button shortly until the desired volume level (1 – 5) is indicated by LEDs.
- 6.) Confirm selected volume:  
Press the **set**-key shortly to save the currently set volume. The input mode is automatically ended. All three LEDs (= = =) light up again.

## 1.5 Yellow LED "ON" when consuming pulses from the pulse reservoir [15]

If necessary, the **Parapulser** indicates acoustically and visually when a pulse frequency with a usage fee has been set and magnetic pulses are thus consumed from the pulse reservoir. For information on usage fee and pulse consumption, see "**6.2**" in the instructions for use on page 8.

Detection feature for on-switched consumption display:

When switching to a pulse frequency with a usage fee, an additional "**beep**" sounds after the "**dulip**" signal and, in addition, the yellow LED (=) flashes shortly with each used magnetic pulse.

Switch pulse consumption display on/off:

- 1.) Activate **Programming-mode**, see "**B2**" on page 3.
- 2.) Activate input mode:  
Press the **CODE**-button (2 sec.) until 3 beeps sound. The input mode is now activated: the **red** LED flashes once per second and a beep sounds.
- 3.) Enter the 2-digit number sequence "15":  
Jump to chapter "**B7**" on page 7 and follow the instructions for entering the position. Then continue here with point 4.)
- 4.) Acoustic confirmation of on/off switching:  
Immediately after entering the second digit (no. "**5**"), an acoustic signal sounds:
  - When consumption display is switched **ON**, a "**dulip**" signal is heard,
  - When consumption display is switched **OFF**, a long "**beeeep**" sound is emitted.Subsequently, the input mode is automatically terminated. All three LEDs (= = =) light

up again.

## 1.6 Read out standard frequency range [16]

- 1.) Activate *Programming-mode*, see "B2" on page 3.
- 2.) Activate input mode:  
Press the **CODE**-button (2 sec.) until 3 beeps sound. The input mode is now activated: the **red** LED flashes once per second and a beep sounds.
- 3.) Enter the 2-digit number sequence "16":  
Jump to chapter "B7" on page 7 and follow the instructions for entering the position. Then continue here with point 4.)
- 4.) Note the number issued:  
The **Parapulser** now shows the first digit of the standard frequency range with the help of the LEDs. Note this number.
- 5.) Read out second digit of the standard frequency range:  
Press the **rest**-button **shortly** and write down the number displayed by the LEDs to the right of the number already written down.  
Repeat this procedure until a long "**beep**" sound indicates that all digits of the standard frequency range have been output. The input mode is automatically terminated. All three LEDs (= = =) light up again.
- 6.) The noted numbers (e.g. "2" or "10") correspond to the standard frequency range of the **Parapulser** in Hertz (Hz).

### 1.6a Upgrade Parapulser to higher version

The **Parapulser** is available in 3 versions:

- 1.) **BASIC (2 Hz)**      2.) **SEMIPRO (10 Hz)**      3.) **PRO (20 Hz)**

The (Hz) number in brackets indicates the standard frequency range (\*) in which this version of the unit can be operated permanently. For the regular price difference, a **Parapulser** can be upgraded to the **PRO (20 Hz)** version:

- 1.) Request an upgrade CODE from your **Parapulser** salesman.
- 2.) Enter the CODE number as described under "2.2" on page 15.
- 3.) After successful CODE input, the parapulser automatically switches to the corresponding *intensity level* "8" with 10 Hz, or "12" with 20 Hz.

It is recommended to read out the new standard frequency range for checking purposes. To do this, continue in chapter "1.6" from point 2).

(\*) The standard frequency range always starts at 1 Hz, and extends to the value in brackets.

## 1.7 Read out software version [17]

- 1.) Activate *Programming-mode*, see "B2" on page 3.
- 2.) Activate input mode:  
Press the **CODE**-button (2 sec.) until 3 beeps sound. The input mode is now activated: the **red** LED flashes once per second and a beep sounds.
- 3.) Enter the 2-digit number sequence "17":  
Jump to chapter "B7" on page 7 and follow the instructions for entering the position. Then continue here with point 4.)
- 4.) Note the number issued:  
The **Parapulser** now shows the **first** digit of the software version with the help of the LEDs. Note this number.
- 5.) Read out remaining digits of the software version:  
Press the **rest**-button **shortly** and write down the number displayed by the LEDs to the right of the number(s) already written down after each press.  
Repeat this process until a long "**beep**" sound indicates that all digits have been output. The input mode is automatically terminated. All three LEDs ( = = = ) light up again.  
If the 2-digit software version was output, the version is obtained by inserting a dot ( . ) between the two numbers:

**Example:** Output numbers are "5" and "3" → Software version is "5.3".

## 1.8 Read out serial number [18]

- 1.) Activate *Programming-mode*, see "B2" on page 3.
- 2.) Activate input mode:  
Press the **CODE**-button (2 sec.) until 3 beeps sound. The input mode is now activated: the **red** LED flashes once per second and a beep sounds.
- 3.) Enter 2-digit number sequence "18":  
Jump to chapter "B7" on page 7 and follow the instructions for entering the position. Then continue here with point 4.)
- 4.) Note the number issued:  
The **Parapulser** now shows the **first** digit of the serial number with the help of the LEDs. Note down this number.
- 5.) Read out remaining digits of the serial number:  
Press the **rest**-button shortly and write down the number indicated by the LEDs to the right of the number(s) already written down after each press.  
Repeat this process until a long "**beep**" sound indicates that all digits have been output. The input mode is automatically terminated. All three LEDs ( = = = ) light up again.

**1.9 Practise CODE input with test CODE [6]**

The correct entry of a **6**-digit CODE number can be practised as often as desired with the test CODE "**627093**". This reduces the risk of a code lock, which is triggered after three incorrect entries of a real CODE number.

Cancel CODE input: Press the **PROG**-button repeatedly **short**, until all three LEDs (= = =) light up again.

- 1.) Activate **Programming-mode**, see "**B2**" on page 3.
- 2.) **Attention:** To clearly indicate that the test CODE is being entered instead of a real CODE number, the yellow LED (=) lights up for **1** second after each digit entry completed with the **set**-button.  
If the yellow LED does not light up during point 4.), cancel the CODE input immediately (press the **PROG**-button twice briefly) and start again at point 3.).
- 3.) Activate input mode:  
Press the **CODE**-button (2 sec.) until **3** beeps sound. The input mode is now activated: the **red** LED flashes once per second and a beep sounds.
- 4.) Enter the 6-digit number sequence "627093":  
To enter the test CODE, go to chapter "**B7**" on page 7 and follow the instructions for entering numbers; during the entry of digits, observe point 5.):
- 5.) Akustisches Prüfergebnis bei der Stelleneingabe:  
After confirming a selected number by means of the **set**-button, the **Parapulser** generates a test signal and the yellow LED (=) lights up for **1** second:
  - A "**dulip**" sound is heard when the correct number (**0 – 9**) was confirmed.
  - If the wrong number (**0 – 9**) was confirmed, a "**beep**" sound is heard. In this case, select and confirm the correct number (**0 – 9**) again.
- 6.) After all **6** digits have been entered correctly, the input mode is automatically terminated. All three LEDs (= = =) light up again.

**2.0 Read out remaining pulses in the pulse reservoir**

- 1.) Activate **Programming-mode**, see "**B2**" on page 3.
- 2.) Press the **rest**-button **shortly** and note the number displayed by the LEDs (**0 – 9**).
- 3.) Read out remaining digits:  
Press the **rest**-button **shortly** and write down the number displayed by the LEDs to the right of the number(s) already written down.  
Repeat this process until a long "**beep**" sound indicates that all digits have been output. The input mode is automatically terminated. All three LEDs (= = =) light up again.  
The noted series of numbers, e.g. **12,345,678**, indicates the exact remaining quantity of pulses in the pulse reservoir. If the pulse supply is empty, the number "**0**" is output.

## 2.1 Refill pulse reservoir with magnetic pulses

1.) Select the desired pulse quantity from the table or calculate it:

Calculation of the required pulse quantity:

**Required pulse quantity** = [Number of days of application] x [Number of daily applications] x [Pulse frequency in Hz] x [Number of minutes per application] x **[60]**

Example : How many magnetic pulses are required for **14** application days with **2** applications per day at **12** Hz pulse frequency and **5** min. duration each?

Calculation : **14 x 2 x 12 x 5 x 60 = 100,800**, value selected from table **Æ 100,000**

Selectable pulse rates						
100,000	300,000	500,000	1,500,000	3,500,000	6,000,000	10,000,000
150,000	350,000	600,000	2,000,000	4,000,000	7,000,000	12,000,000
200,000	400,000	800,000	2,500,000	4,500,000	8,000,000	14,000,000
250,000	450,000	1,000,000	3,000,000	5,000,000	9,000,000	16,000,000

2.) Order the required CODE number from your salesman.

3.) Enter the CODE number into the **Parapulser**, see "2.2" on this page.

- After the pulse reservoir has been successfully filled, it can be queried immediately, see above chapter "2.0", subitem 2.)
- At next switch on, the **Parapulser** displays the filling level of the pulse reservoir with the number **4** (filling level is **100** %), see "6.3" in the firing instructions on page **9**.
- The pulse reservoir can be filled up to **16** million pulses. Any refills that exceed this limit will be lost.

## 2.2 Enter CODE number

Under the following link there is an english video tutorial for entering a CODE number.

<https://www.youtube.com/watch?v=ECbbr6zCBvQ&t=13s>

Below are the instructions for CODE input without video:



**Attention!** If a CODE number was entered incorrectly **3** times in a row, the **Parapulser** blocks any further CODE input (CODE lock). Refilling the pulse reservoir or increasing the upgrade frequency is then no longer possible. A CODE lock can be removed again by means of an unlock CODE, see "2.3" on page **16**.

To avoid a CODE lock due to incorrect input, it is recommended to practise CODE input, see "1.9" on page **14**.

1.) Activate **Programming-mode**, see "B2" on page **3**.

2.) Activate input mode:

Press the **CODE**-button (**2** sec.) until **3** beeps sound. The input mode is now activated: the **red** LED flashes once per second and a beep sounds.

3.) Enter 6-digit CODE number:

Jump to chapter "**B7**" on page **7** and follow the instructions for entering the digits. Then continue here with point **4**.)

**4.) Acoustic test result after entering the last CODE digit:**

- If all **6** digits have been entered correctly, another "**dulip**" signal sounds.
- If an incorrect CODE number was entered, a "**beep**" signal sounds and the **red** LED (= ) lights up for **1** sec. In this case, enter the CODE number correctly again. The "**beep**" signal sounds with a red LED (= ) as often as the CODE number has already been entered incorrectly (maximum **3x**).

**5.)** After the **Parapulser** has given the acoustic test result, the input mode is automatically terminated. If you did not see the red LED going on for **1** second with a "**beep**", then the CODE-input was correct. All three LEDs (= = = ) light up again.

<b>2.3 Enter Unlock CODE</b>
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- A CODE lock can only be removed by entering an unlock CODE. This must be requested from your **Parapulser** salesman. The unlock CODE is entered like a CODE number, see "**2.2**" on page **15**.
- After correct entry of an unlock CODE, a CODE number may again be entered incorrectly **3** times in succession until a CODE lock occurs again.
- If an unlock CODE is entered incorrectly **3** times in a row, the **Parapulser** blocks the entry of a second unlock CODE. To remove this block, the **Parapulser** must be re-programmed by the manufacturer. In this case, please contact your salesman.

<p><b>Customer service:</b></p>
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<p><b>Mikas Elektronik Entwicklungen</b></p>
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